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› Briidea HRWL-01 Freshwater Tank Level Indicator User Manual

briidea HRWL-01

Briidea HRWL-01 Freshwater Tank Level Indicator User Manual

Model: HRWL-01 | Brand: briidea

INTRODUCTION

The Briidea HRWL-01 is a non-contact freshwater tank level indicator designed for recreational vehicles (RVs), caravans, and boats. It provides real-time monitoring of your freshwater tank's level, allowing for timely refills and preventing empty tank situations. This system utilizes a non-contact detection method, ensuring the purity and hygiene of your fresh water by avoiding direct contact with the sensor.

The kit includes all necessary components for installation, eliminating the need for additional detection electrodes. This manual provides detailed instructions for the proper setup, operation, and maintenance of your Briidea HRWL-01 indicator.

Breite Anwendung

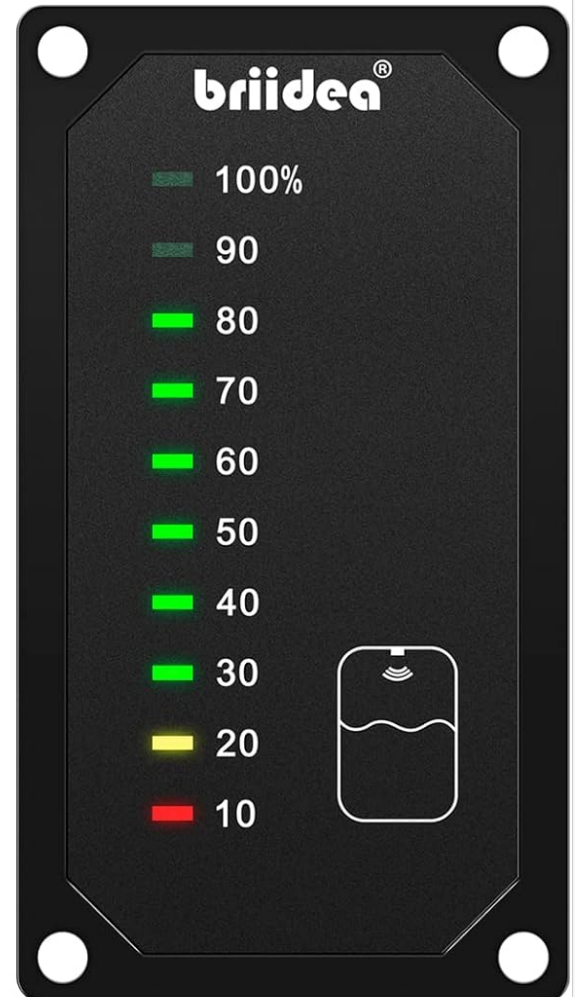


Image: The Briidea HRWL-01 indicator shown in various applications, including RVs and boats, demonstrating its wide range of use for monitoring freshwater tanks.

SETUP AND INSTALLATION

Proper installation is crucial for accurate readings. Please follow these guidelines carefully:

- **Sensor Placement:** Install the sensor in the middle of the water tank. Direct water contact with the sensor can affect measurement accuracy. Ensure the sensor remains dry during the calibration process.
- **Tank Dimensions:** For optimal performance, the length of your water tank should be approximately twice its height. Verify that your tank dimensions are compatible with the product's requirements before installation.
- **Tank Material:** Be aware that some metal water tanks may influence the accuracy of the measurement.
- **Detection Depth:** The sensor supports deep detection up to 400 cm.

LED-ANZEIGELEUCHE

Mehrfarbige Lichter informieren Sie auf einen Blick über den aktuellen Wasserstand im Tank



Image: Diagram illustrating the non-contact detection method. It shows the sensor mounted on top of the tank, detecting water level without direct contact, and highlights the importance of sensor placement in the middle of the tank and the tank's length-to-height ratio for accurate readings.

Wiring Instructions

The Briidea HRWL-01 operates on a DC power supply ranging from 7V to 32V. Connect the indicator according to the following diagram:

- Connect the positive (+) terminal of the indicator to the positive terminal of your 7-32V DC power source (e.g., vehicle battery).
- Connect the negative (-) terminal of the indicator to the negative terminal of your 7-32V DC power source (e.g., vehicle battery).
- Connect the sensor cable to the designated port on the indicator unit.



Image: A clear wiring diagram showing the connections for the Briidea HRWL-01. It illustrates how to connect the indicator unit to a battery (power source) and the sensor to the water tank, ensuring proper electrical setup.

Calibration

After installation and wiring, ensure the sensor is dry before initiating any calibration steps. While specific calibration steps are not detailed, the system is designed to provide accurate readings once properly installed and powered. If initial readings appear inaccurate, re-verify sensor placement and ensure no water contact with the sensor during the initial power-up or calibration phase.

OPERATING INSTRUCTIONS

Once installed and powered, the Briidea HRWL-01 indicator will display the current freshwater level in your tank.

- **LED Display:** The indicator features a multi-color LED display that shows the water level in percentages (10% to 100%). Each LED segment illuminates to represent the corresponding water level.
- **Power-Down Memory:** The device includes a power-down memory function. This means that once the initial settings are configured, they are retained even after power interruptions or disconnections, eliminating the need for re-configuration.

EINFACHE VERKABELUNG

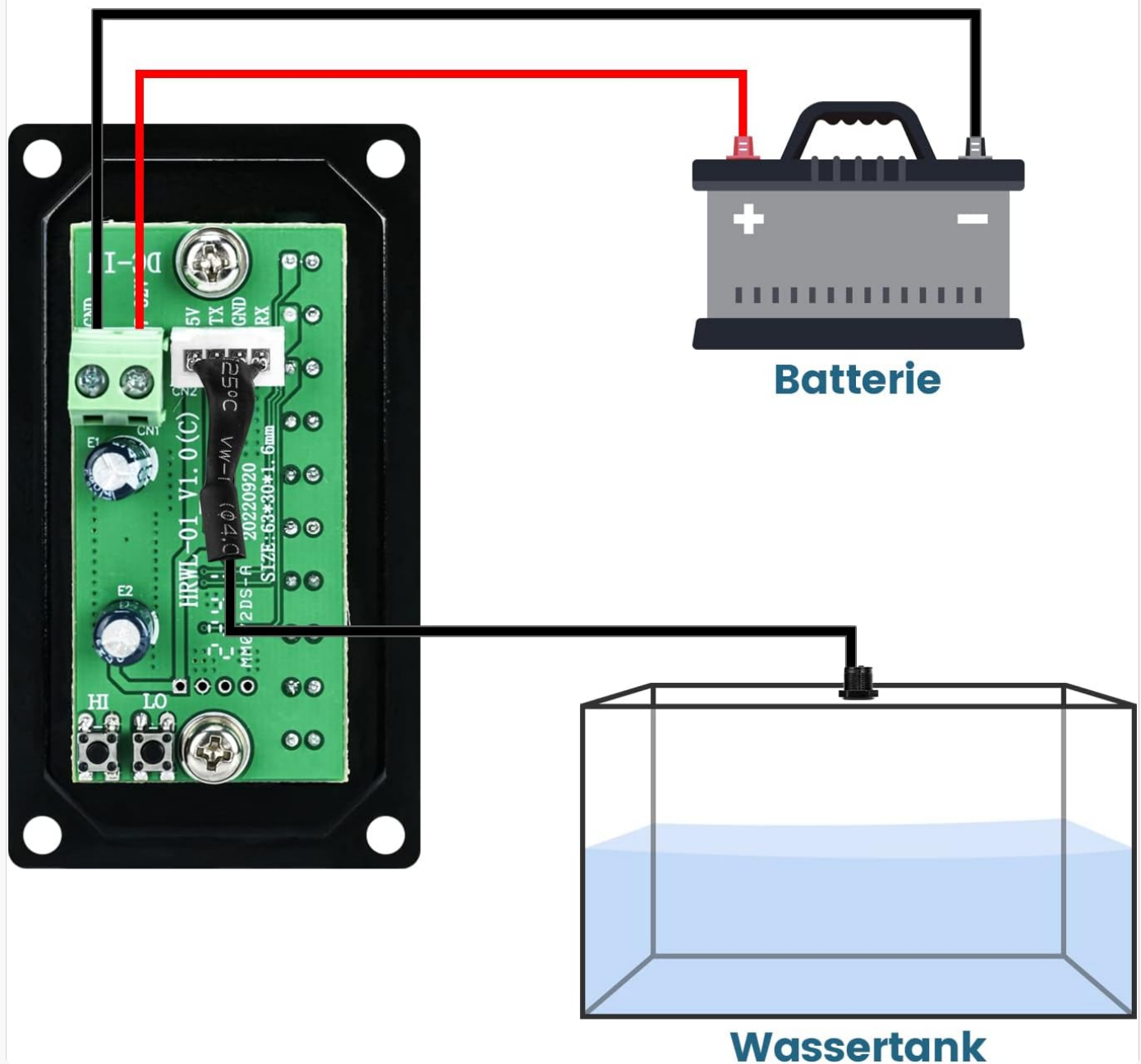


Image: The Briidea HRWL-01 LED display unit installed in an RV interior, clearly showing the percentage-based water level indication with multiple colored lights.

MAINTENANCE

The Briidea HRWL-01 is designed for low maintenance. To ensure continued accurate operation:

- Periodically check all wiring connections to ensure they are secure and free from corrosion.
- Ensure the sensor unit remains clean and dry on its exterior surface. Avoid direct water contact with the sensor's detection area.
- Keep the display unit clean using a soft, dry cloth. Do not use abrasive cleaners or solvents.

TROUBLESHOOTING

- If you encounter issues with your Briidea HRWL-01, consider the following:
- **Inaccurate Readings:**
 - Verify the sensor is installed in the middle of the tank and is not in direct contact with water.
 - Confirm that the water tank's length-to-height ratio meets the recommended 2:1 specification.
 - If using a metal water tank, be aware that it may affect measurement accuracy.
 - Ensure the sensor was dry during initial setup and calibration.
 - **No Display/Power:**
 - Check all power connections to ensure they are secure and correctly wired to a 7-32V DC source.
 - Verify the power source is active and providing the correct voltage.

SPECIFICATIONS

Feature	Specification
Brand	briidea
Model	HRWL-01
Color	Black
Power Source	Wired Electric (DC 7-32V)
Compatible Devices	RV, Caravan, Boat
Battery Description	Alkaline (Note: Device is wired, this may refer to internal components or a generic classification)
Voltage	7-32V DC
Control Method	Touch (for settings/calibration, if applicable)
Mounting Type	None (implies surface mount for display, sensor mounts on tank)
Maximum Range	400 Centimeters (detection depth)
Sensor Technology	Ultrasonic Sensor

Dimensions

- **Display Unit:** Approximately 8.5 cm (height) x 4.7 cm (width)
- **Sensor Unit:** Approximately 2.9 cm (diameter) x 2.4 cm (height)
- **Sensor Cable Length:** Approximately 1.5 meters



Image: An illustration detailing the physical dimensions of the Briidea HRWL-01 display unit and the connected sensor, including the cable length, providing precise measurements for installation planning.

WARRANTY AND SUPPORT

Specific warranty information for the Briidea HRWL-01 Freshwater Tank Level Indicator is not provided in this manual. Please refer to the product packaging or the seller's website for details regarding warranty coverage and customer support options.

ASK A QUESTION ABOUT THIS MANUAL

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Question

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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